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09/668,005	09/21/2000	Tomotoshi Sato	49986-0500	8312

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EXAMINER
HUTTON JR, WILLIAM D

ART UNIT	PAPER NUMBER
2178	3

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Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.		Applicant(s)	
Office Action Summary	09/668,005		SATO, TOMOTOSHI	
	Examiner		Art Unit	
	Doug Hutton		2178	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _21 September 2000_.

2a)☐ This action is **FINAL**.　　2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-28_ is/are pending in the application.

　　4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1-28_ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on _21 September 2000_ is/are: a)☐ accepted or b)☒ objected to by the Examiner.

　　Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

　　Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

　　a)☐ All　b)☐ Some *　c)☐ None of:

　　　1.☐ Certified copies of the priority documents have been received.

　　　2.☐ Certified copies of the priority documents have been received in Application No. _____.

　　　3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

　　* See the attached detailed Office action for a list of the certified copies not received.

13)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

　　a) ☐ The translation of the foreign language provisional application has been received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .

4)☐ Interview Summary (PTO-413) Paper No(s). _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: .

DETAILED ACTION

Drawings

The drawings are objected to because Figure 6 is unfocused and not readable.

A proposed drawing correction or corrected drawings are required in reply to the Office

action to avoid abandonment of the application. The objection to the drawings will not

be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-12 and 14-28 are rejected under 35 U.S.C. 102(e) as being anticipated

by Blumberg et al., U.S. Patent Application Publication US 2003/0140315 A1.

Claim 1:

Blumberg discloses a method for previewing an electronic document, the method

comprising:

- generating the electronic document at a client (Page 3, Paragraph 0058 through Page 6, Paragraph 0106 – a user creates a document using a typical word processor);

- transmitting document information associated with the electronic document from the client to a printing device (Page 3, Paragraph 0058 through Page 6, Paragraph 0106 – the user imports the document into Virtual Builder; thus, the referenced invention "transmits" "document information" to a "printing device");

- generating preview document data at the printing device based on the document information and a set of one or more specific characteristics associated with the printing device, wherein the set of one or more specific characteristics are unavailable at the client (Page 3, Paragraph 0058 through Page 6, Paragraph 0106 – Virtual Builder "generates" "preview document data" based on the "document information" and "specific characteristics" associated with Virtual Builder; see the various options in Paragraphs 0067-0071 for examples of "specific characteristics" that are "unavailable at the client");

- transmitting the preview document data to the client from the printing device (Page 3, Paragraph 0058 through Page 6, Paragraph 0106 – Virtual Builder "transmits" the "preview document data" to the client computer); and

- previewing the electronic document at the client based on the preview document data received from the printing device (Page 3, Paragraph 0058 through Page 6, Paragraph 0106 – the user "previews" the document at the client computer).

Claim 2:

Blumberg discloses the method of Claim 1, wherein:

- the printing device is a multi-functional printer (MFP) (Virtual Builder is a "multi-functional printer" in that it is an online "printer" that will print the submitted document as it would appear in its "finished" state; that is, the "finished" document printed by Virtual Builder will have the "look and feel" of the "actual" document); and

- the step of transmitting the document information includes transmitting document information to the MFP (as explained in the above rejection for Claim 1, the "document information" is transmitted to Virtual Builder).

Claim 3:

Blumberg discloses the method of Claim 1, wherein:

- the document information is Page Description Language (PDL) data (the "document information" is PDL data in that the document is created using a typical word processor); and

- the step of transmitting document information includes transmitting PDL data from the client to the printing device (as explained in the above rejection for Claim 1, the "document information" is transmitted to Virtual Builder).

Claim 4:

Blumberg discloses the method of Claim 1, wherein the step of generating

preview document data at the printing device includes generating raster image data at

the printing device based upon the document information and the set of one or more

specific characteristics associated with the printing device (Page 6, Paragraphs 0107-

0110).

Claim 5:

Blumberg discloses the method of Claim 1, wherein the step of generating

preview document data at the printing device includes generating a bitmap image at the

printing device based upon the document information and the set of one or more

specific characteristics associated with the printing device (Page 9, Paragraphs 0184

and 0188).

Claim 6:

Blumberg discloses the method of Claim 1, wherein:

- the printing device is associated with one or more different paper characteristics

  that are available for printing electronic documents (Page 4, Paragraph 0068);

  and

- the set of one or more specific characteristics associated with the printing device

  includes one or more of the one or more different paper characteristics that are

  available for printing electronic documents (Page 4, Paragraph 0068).

Claim 7:

Blumberg discloses the method of Claim 6, wherein the one or more different paper characteristics includes one or more paper type characteristics, wherein the one or more paper type characteristics indicate a specific type of paper that has been for printing the electronic document (Page 4, Paragraph 0068).

Claim 8:

Blumberg discloses the method of Claim 6, wherein the one or more different paper characteristics includes one or more paper color characteristics, wherein the one or more paper color characteristics indicate a specific color of paper that has been for printing the electronic document (Page 4, Paragraph 0068).

Claim 9:

Blumberg discloses the method of Claim 1, wherein:

- the printing device supports one or more different fonts that are available for printing electronic documents (Page 4, Paragraph 0174); and

- the set of one or more specific characteristics associated with the printing device includes one more of the one or more different fonts that are available for printing electronic documents (Page 4, Paragraph 0174).

Claim 10:

Blumberg discloses the method of Claim 1, wherein:

- the printing device is associated with one or more different stapling

  characteristics that are available for selection (Page 4, Paragraph 0071 and

  Page 10, Paragraph 0193); and

- the set of one or more specific characteristics associated with the printing device

  includes one or more of the one or more different stapling characteristics that are

  available for selection (Page 4, Paragraph 0071 and Page 10, Paragraph 0193).

Claim 11:

Blumberg discloses the method of Claim 1, wherein:

- the printing device is associated with one or more different finishing

  characteristics that are available for selection (Page 4, Paragraphs 0064-0074);

  and

- the set of one or more specific characteristics associated with the printing device

  includes one or more of the one or more different finishing characteristics that are

  available for selection (Page 4, Paragraphs 0064-0074).

Claim 12:

Blumberg discloses the method of Claim 1, wherein:

- the client includes a print driver that is associated with the printing device (the

  document is created using a word processor; all computers with word processors

  inherently have a print driver); and

- the set of one or more specific characteristics that are unavailable at the client includes one or more characteristics that are unknown to the print driver (Page 4, Paragraphs 0064-0074 – the "specific characteristics" unknown to the print driver include covers, paper types and bindings).

Claim 14:

Blumberg discloses the method of Claim 1, wherein:

- the step of generating preview document data at the printing device further includes the steps of determining the resolution of a display device that is associated with the client (Page 7, Paragraph 0138 and Page 9, Paragraph 0174); and

- generating the preview document data based on the resolution of the display device (Page 7, Paragraph 0138 and Page 9, Paragraph 0174).

Claim 15:

Blumberg discloses the method of Claim 1, wherein:

- the step of generating preview document data at the printing device includes the steps of generating two-dimensional (2-D) preview document data (see Figure 1); and

- the step of displaying the preview version of the electronic document includes the step of displaying portions of the electronic document at the client in 2-D (see Figure 1).

Claim 16:

Blumberg discloses the method of Claim 1, wherein:

- the step of generating preview document data at the printing device includes the steps of generating three-dimensional (3-D) preview document data (Page 10, Paragraph 0200 through Page 11, Paragraph 0210); and

- the step of displaying the preview version of the electronic document includes the step of displaying portions of the electronic document at the client in 3-D (Page 10, Paragraph 0200 through Page 11, Paragraph 0210).

Claim 17:

Blumberg discloses the method of Claim 1, wherein:

- the step of generating preview document data at the printing device includes the steps of generating HyperText Markup Language (HTML) data at the printing device (the reference discloses a client communicating with an online printer; thus, the "printing device" *inherently* "generates HTML data"); and

- the step of transmitting the preview document data to the client includes the step of transmitting the HTML data to the client from the printing device (the reference discloses a client communicating with an online printer; thus, the "printing device" *inherently* "transmits HTML data" to the client).

Claim 18:

Blumberg discloses the method of Claim 1, wherein:

- the step of generating preview document data at the printing device includes the steps of generating; Extensible Markup Language (XML) data at the printing device (Pages 3 and 4, Paragraph 0061); and

- the step of transmitting the preview document data to the client includes the step of transmitting the XML data to the client from the printing device (Pages 3 and 4, Paragraph 0061).

Claim 19:

Blumberg discloses a method for previewing an electronic document, the method comprising:

- receiving from a client at a printing device document information associated with an electronic document (Page 3, Paragraph 0058 through Page 6, Paragraph 0106 – the user transmits the document to Virtual Builder);;

- generating preview document data at the printing device based on the document information and a set of one or more specific characteristics associated with the printing device (Virtual Builder "generates" the specified "preview document data" as discussed in the rejection for Claim 1); and

- transmitting to the client the preview document data for causing a display unit associated with the client to display a preview version of the electronic document (Virtual Builder "transmits" "preview document data" to display a "preview" on a "display unit" as discussed in the rejection for Claim 1).

Claim 20:

Blumberg discloses the method of Claim 19, wherein:

- the document information is Page Description Language (PDL) data; and

- the step of receiving document information includes receiving PDL data at the printing device (these limitations are disclosed by the prior art as discussed in the rejection for Claim 3).

Claim 21:

Blumberg discloses the method of Claim 19, wherein the step of generating preview document data at the printing device includes generating raster image data at the printing device based upon the document information and the set of one or more specific characteristics associated with the printing device (these limitations are disclosed by the prior art as discussed in the rejection for Claim 4).

Claim 22:

Blumberg discloses the method of Claim 19, wherein:

- the printing device is associated with one or more different paper characteristics that are available for printing electronic documents; and

- the set of one or more specific characteristics associated with the printing device includes one or more of the one or more different paper characteristics that are available for printing electronic documents (these limitations are disclosed by the prior art as discussed in the rejection for Claim 6).

Claim 23:

Blumberg discloses the method of Claim 19, wherein:

- the printing device is associated with one or more different finishing

  characteristics that are available for selection; and

- the set of one or more specific characteristics associated with the printing device

  includes one or more of the one or more different finishing characteristics that are

  available for selection (these limitations are disclosed by the prior art as

  discussed in the rejection for Claim 11).

Claim 24:

Blumberg discloses the method of Claim 19, wherein the step of generating

preview document data at the printing device further includes the steps of:

- determining a display resolution of the display device that is associated with the

  client; and

- generating the preview document data based on the display resolution of the

  display device (these limitations are disclosed by the prior art as discussed in the

  rejection for Claim 14).

Claim 25:

Blumberg discloses the method of Claim 19, wherein:

- the step of generating preview document data at the printing device includes

  generating three-dimensional (3-D) preview document data; and

- the step of transmitting to the client the preview document data includes

  transmitting preview document data that causes the preview version of the

  electronic document to be displayed in 3-D on the display unit associated with

  the client (these limitations are disclosed by the prior art as discussed in the

  rejection for Claim 16).

Claims 26-28:

These claims recite a computer-readable medium, a computer system and a

computer apparatus for performing the method of Claim 1. Thus, these claims are

rejected using the same rationale discussed in the rejection for Claim 1.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Blumberg et al., U.S. Patent Application Publication US 2003/0140315 A1, in view of

Bando, U.S. Patent No. 6,449,053.

Claim 13:

As indicated in the above discussion, Blumberg discloses every element of Claim 1. Blumberg also discloses a print driver that is associated with the printing device (as indicated in the rejection for Claim 12).

Blumberg fails to expressly disclose:

- a print driver is that associated with one or more print driver attributes that are not supported by the printing device; and

- in the step of generating preview, document data at the printing device includes the step of translating one or more of the one or more print driver attributes into one or more printing device attributes that are supported by the printing device.

Bando teaches:

- a print driver is that associated with one or more print driver attributes that are not supported by the printing device (Column 1, Line 13 through Column 2, Line 30 – the printing device does not support all fonts in the PDL); and

- translating one or more of the one or more print driver attributes into one or more printing device attributes that are supported by the printing device (Column 1, Line 13 through Column 2, Line 30 – the RIP converts PDL into raster image data),

for the purpose printing documents on the print device and reducing the overall cost of the computer network (Column 1, Lines 62-67).

Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method, disclosed in Blumberg, to include:

- a print driver is that associated with one or more print driver attributes that are not supported by the printing device; and

- in the step of generating preview, document data at the printing device includes the step of translating one or more of the one or more print driver attributes into one or more printing device attributes that are supported by the printing device,

for the purpose printing documents on the print device and reducing the overall cost of the computer network, as taught by Bando.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Livingston, U.S. Patent No. 6,614,454; Andersen et al., U.S. Patent No. 5,903,905; and Slayden et al., U.S. Patent No. 5,680,629.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Doug Hutton whose telephone number is (703) 305-1701. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon, can be reached at (703) 308-5186. The fax phone

number for the organization where this application or proceeding is assigned is (703) 746-7239.

      Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

WDH
January 16, 2004

HEATHER HERNDON
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